PTO/SB/05 (08-03)
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UTILITY PATENT APPLICATION

area to respond to a confection of information driess it displays a valid Civib Control in						
Attorney Docket No.		MWS-111				
First Inventor Joseph F. Hicklin		Joseph F. Hicklin				
Title		ID APPARATUS FOR IMPROVED OF CHEMICAL AND BIOCHEMICAL				
Everess Mail Label No. EL 082 740 456 LIS		EL 082 740 456 LIS				

TO A LONG TO A		METHOD AND APPARATUS FOR IMPROVED						
TRANSMITTAL	Title	MODELING OF CHEMICAL AND BIOCHEMICAL						
(Only for new nonprovisional applications under 37 CFR 1.53(b))		REACTIONS						
	Expres	ss Mail Label No. EL 982 740 456 US						
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application cor	ntents.	MS Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 20013 1450						
Fee Transmittal Form (e.g., PTO/SB/17)		Alexandria, VA 22313-1450						
(Submit an original, and a duplicate for fee processing)		Computer Program (Appendix)						
Applicant claims small entity status. See 37 CFR 1.27.		8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)						
3. X Specification [Total Pages 51]	a. Computer Readable Form (CRF)						
(preferred arrangement set forth below) - Descriptive title of the invention		b. Specification Sequence Listing on:						
 Cross Reference to Related Applications Statement Regarding Fed sponsored R & D 		i. CD-ROM or CD-R (2 copies); or ii. Paper						
 Reference to sequence listing, a table, or a computer program listing appendix 		c. Statements verifying identity of above copies						
Background of the Invention Brief Summary of the Invention		ACCOMPANYING APPLICATION PARTS						
Brief Description of the Drawings (if filed) Detailed Description Claim(s)		9. Assignment Papers (cover sheet & document(s))						
- Abstract of the Disclosure		10. 37 CFR 3.73(b) Statement Power of Attorney						
	<u>O</u>]1	11. English Translation Document (if applicable)						
5. Oath or Declaration [Total Sheets]]	12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations						
a. Newly executed (original or copy)		13. Preliminary Amendment						
b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)		14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized)						
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed)								
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).		16. X Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its						
see 37 OF 11 7.00(0)(2) and 1.00(0).		17. X Other: Appendix A (4 pages)						
6. X Application Data Sheet. See 37 CFR 1.76								
18. If a CONTINUING APPLICATION, check appropriate box, a specification following the title, or in an Application Data Sheet		OFD 1.76						
Continuation Divisional Continuation								
Prior application information: Examiner Art Unit:								
under Box 5b, is considered a part of the disclosure of the acco	mpanyin	re of the prior application, from which an oath or declaration is supplied g continuation or divisional application and is hereby incorporated by seen inadvertently omitted from the submitted application parts.						
19. COR	RESPO	NDENCE ADDRESS						
X Customer Number: 00959		OR Correspondence address below						
LAHIVE & COCKFIELD, LLP Kevin J. Canning								
Address 28 State Street								
City Boston State	te	MA Zip Code 02109						
Country US Tele	ephone	(617) 227-7400 Fax (617) 742-4214						
Name (Print/Type) John D. Lanza		Registration No. (Attorney/Agent) 40,060						
Signature	TO	Date February 20, 2004						
	76							
		ne U.S. Postal Service as Express Mail, Airbill No. EL 982 740 456						

the date shown below.

Dated: February 20, 2004

Signature:

(John D. Lanza)

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CEE TO A NOMITTAL			_		Complete	e if Known	
FEE TRANSMITTAL		Applic	cation	Numb	er No	t Yet Assigned	
for FY 2004		Filing Date			Co	Concurrently Herewith	
		First Named Inventor			tor Jos	Joseph F. Hicklin	
Effective 10/01/2003, Patent fees are subject to annual revision.	Examiner Name			ame	No	Not Yet Assigned	
Applicant claims small entity status. See 37 CFR 1.27		Art Ur	nit		N/A	1	
TOTAL AMOUNT OF PAYMENT (\$) 1,316.00		Attorney Docket No. MWS-111					
METHOD OF PAYMENT (check all that apply)				FEE	CALCULATI	ON (continued)	
Check Credit Money Other Ness	3 4	DDITIO	ONAL	FFFS	_		-
Card Order L	J. 7		JIVAL				
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Deposit Account 12-0080	Fee	Fee	Fee	Fee		B	
Number	Code	(\$)	Code	(\$)	F	ee Description	Fee Paid
Deposit Account Lahive & Cockfield, LLP	1051	130	2051	65	Surcharge – late	e filing fee or oath	
Name The Director is authorized to: (check all that apply)	1052	50	2052	25		e provisional filing fee or cover	
	4050	420	4050	400	sheet.		
X Charge fee(s) indicated below X Credit any overpayments	1053	130	1053	130	Non-English spe	ecification	
Charge any additional fee(s) or any underpayment of fee(s)	1812	2,520	1812	2,520		st for ex parte reexamination	
Charge fee(s) indicated below, except for the filing fee	1804	920*	1804	920*	Requesting publi Examiner action	lication of SIR prior to	
to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting pub	lication of SIR after	
FEE CALCULATION	1251	110	2251	55	Extension for re	ply within first month	
1. BASIC FILING FEE	1252	420	2252	210	Extension for re	ply within second month	
Large Entity Small Entity	1253	950	2253	475	Extension for re	ply within third month	
Fee Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1254	1,480	2254	740	Extension for re	ply within fourth month	<u> </u>
1001 770 2001 385 Utility filing fee 770.00	1255	2,010	2255	1,005	Extension for rep	ply within fifth month	
1002 340 2002 170 Design filing fee	1401	330	2401	165	Notice of Appea	i ·	
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief in s	support of an appeal	
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for oral	hearing	
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institu	rte a public use proceeding	
SUBTOTAL (1) (\$) 770.00	1452	110	2452	55	Petition to revive	e – unavoidable	
	1453	1,330	2453	665	Petition to revive	e - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,330	2501	665	Utility issue fee ((or reissue)	
Extra Fee from Claims below Fee Paid	1502	480	2502	240	Design issue fee	•	

2. EXTRA CLAIM FEES FOR UTIL		1501	1,330	2501	665	Utility issue fee (or reissue)
Extra F Claims	Fee from Fee Paid	1502	480	2502	240	Design issue fee
Total Claims 36 -20** = 16 x	18.00 = 288.00	1503	640	2503	320	Plant issue fee
Independent 6 -3** = 3 x	86.00 = 258.00	1460	130	1460	130	Petitions to the Commissioner
Multiple Dependent]=	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)
Large Entity Small Entity		1806	180	1806	180	Submission of Information Disclosure Stmt
Fee Fee Fee Code (\$) Fee	Description	8021	40	8021	40	Recording each patent assignment per property (times number of properties)
1202 18 2202 9 Claims in excess 1201 86 2201 43 Independent cl.	ess of 20 laims in excess of 3	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))
	dent claim, if not paid	1810	770	2810	385	For each additional invention to be examined (37CFR 1.129(b))
	ependent claims	1801	770	2801	385	Request for Continued Examination (RCE)
over original 1205 18 2205 9 ** Reissue clair	I patent ims in excess of 20	1802	900	1802	900	Request for expedited examination of a design application
and over orig	ginal patent	Other fo	ee (spe	cify)		
SUBTOTAL (2)	(\$) 546.00	*Redu	ced by E	asic Fili	ng Fee	Paid SUBTOTAL (3) (\$)

SUBMITTED BY			-		(Complete	(if applicable))
Name (Print/Type)	John D. Lanza		Registration No. (Attorney/Agent	· IZH DEH	Telephone	(617) 227-7400
Signature	0	um 1	/a~		Date	February 20, 2004
-	Λ-		771			

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EL 982 740 456 US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the data shows below the date shown below.

Dated: February 20, 2004

**or number previously paid, if greater, For Reissues, see above

Signature:

(John D. Lanza)

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NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)

First Named Inventor		Joseph F. Hicklin			
Title	METHOD AND MODELING O REACTIONS	ND APPARATUS FOR IMPROVED OF CHEMICAL AND BIOCHEMICAL			
Attorn	ev Docket No	MWS-111			

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

February 20, 2004 Date

(617) 227-7400 Telephone Number John D. Lanza - 40,060

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).

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Dated: February 20, 2004

Signature

(John D. Lanza)

Application No. (if known):	Attorney Docket No.: MWS-11
Certificate of Express I	Mailing Under 37 CFR 1.10
I hereby certify that this correspondence is b Express Mail, Airbill No. EL 982 740 456 US	eing deposited with the United States Postal Service as in an envelope addressed to:
MS Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	
on February 20, 2004 Date	

U John D. Lanza
Typed or printed name of person signing Certificate

Note:

Application Data Sheet

Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.